

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0007**

| Waterway                  | Bank  | Unit Miles | Inspection Start/End     | Inspector        |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Feather River | Right | 11.90      | 09/06/2018<br>09/06/2018 | Sterling<br>York |

|   |                                  |              |    |                        |     |
|---|----------------------------------|--------------|----|------------------------|-----|
| LM Start  |                                  | Rating **    | A  | Issue No.              | 1   |
| LM End  |                                  | Issue Type + | Ma | Location *             |     |
| Category  | Earthen Levee                    |              |    | GPS Latitude/Longitude |     |
|   |                                  |              |    | Start                  | End |
| Item  | Operations & Maintenance Manuals |              |    | °                      | °   |
|   |                                  |              |    | °                      | °   |
| DWR ID  | DWR_MA0007_01_s _ 2013_1         |              |    |                        |     |
| Comment Code  |                                  |              |    |                        |     |
|   |                                  |              |    |                        |     |
| Inspector Comment   |                                  |              |    |                        |     |
| There are new O&M manuals given to the LMA now that construction is complete. The O&M manuals are located at the Sutter Maintenance Yard. |                                  |              |    |                        |     |

No Photos

|   |                                |              |    |                        |     |
|---|--------------------------------|--------------|----|------------------------|-----|
| LM Start  |                                | Rating **    | A  | Issue No.              | 3   |
| LM End  |                                | Issue Type + | Ma | Location *             |     |
| Category  | Earthen Levee                  |              |    | GPS Latitude/Longitude |     |
|   |                                |              |    | Start                  | End |
| Item  | Emergency Supplies & Equipment |              |    | °                      | °   |
|   |                                |              |    | °                      | °   |
| DWR ID  | DWR_MA0007_01_s _ 2013_3       |              |    |                        |     |
| Comment Code  |                                |              |    |                        |     |
|   |                                |              |    |                        |     |
| Inspector Comment   |                                |              |    |                        |     |
| Emergency supplies and equipment are stored at the Sutter Maintenance Yard. |                                |              |    |                        |     |

No Photos

|  |                               |              |    |                        |     |
|--|-------------------------------|--------------|----|------------------------|-----|
| LM Start   |                               | Rating **    | A  | Issue No.              | 4   |
| LM End   |                               | Issue Type + | Ma | Location *             |     |
| Category   | Earthen Levee                 |              |    | GPS Latitude/Longitude |     |
|  |                               |              |    | Start                  | End |
| Item   | Flood Preparedness & Training |              |    | °                      | °   |
|  |                               |              |    | °                      | °   |
| DWR ID   | DWR_MA0007_01_s _ 2013_4      |              |    |                        |     |
| Comment Code   |                               |              |    |                        |     |
|  |                               |              |    |                        |     |
| Inspector Comment  |                               |              |    |                        |     |
| Sutter Maintenance Yard employees attend the annual Flood Fight class put on by DWR. |                               |              |    |                        |     |

No Photos

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

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|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Feather River | Right | 11.90      | 09/06/2018<br>09/06/2018 | Sterling<br>York |

|  |                         |              |    |                        |              |
|--|-------------------------|--------------|----|------------------------|--------------|
| LM Start   | 0.01                    | Rating **    | A  | Issue No.              | 11           |
| LM End   | 11.87                   | Issue Type + | Ma | Location *             | LS           |
| Category   | Earthen Levee           |              |    | GPS Latitude/Longitude |              |
|  |                         |              |    | Start                  | End          |
| Item   | Vegetation              |              |    | 39.311145°             | 39.439263°   |
|  |                         |              |    | -121.637616°           | -121.641856° |
| DWR ID   | DWR_MA0007_01_f_2018_11 |              |    |                        |              |
| Comment Code   |                         |              |    |                        |              |
| V1 : Control annual grass and weeds on the levee slopes and easements. |                         |              |    |                        |              |
| Inspector Comment  |                         |              |    |                        |              |
| The annual vegetation is well maintained, Fall 2018.                   |                         |              |    |                        |              |

Photo 1 of 1 : FA\_2018\_MA0007\_200\_11\_20181002\_00026.jpg



View looking upstream landside at the well maintained vegetation, Fall 2018.

|  |                         |              |    |                        |              |
|--|-------------------------|--------------|----|------------------------|--------------|
| LM Start   | 0.01                    | Rating **    | A  | Issue No.              | 12           |
| LM End   | 11.87                   | Issue Type + | Ma | Location *             | WS           |
| Category   | Earthen Levee           |              |    | GPS Latitude/Longitude |              |
|  |                         |              |    | Start                  | End          |
| Item   | Vegetation              |              |    | 39.311148°             | 39.439263°   |
|  |                         |              |    | -121.637615°           | -121.641856° |
| DWR ID   | DWR_MA0007_01_f_2018_12 |              |    |                        |              |
| Comment Code   |                         |              |    |                        |              |
| V1 : Control annual grass and weeds on the levee slopes and easements. |                         |              |    |                        |              |
| Inspector Comment  |                         |              |    |                        |              |
| The annual vegetation is well maintained, Fall 2018.                   |                         |              |    |                        |              |

Photo 1 of 1 : FA\_2018\_MA0007\_200\_12\_20181002\_00027.jpg



View looking upstream waterside at the well maintained vegetation, Fall 2018.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

## Sutter Maintenance Yard Maintenance Area 0007

View looking downstream of several tree stumps at the levee toe on the waterside, still exist.

View of landside toe vegetation looking downstream.

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| Waterway                  | Bank  | Unit Miles | Inspection Start/End     | Inspector     |
|---------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Feather River | Right | 11.90      | 09/06/2018<br>09/06/2018 | Sterling York |

|   |                                  |              |     |                        |              |
|---|----------------------------------|--------------|-----|------------------------|--------------|
| LM Start  | 1.55                             | Rating **    | A/W | Issue No.              | 9            |
| LM End  | 1.71                             | Issue Type + | Ma  | Location *             | WS           |
| Category  | Supplemental                     |              |     | GPS Latitude/Longitude |              |
|   |                                  |              |     | Start                  | End          |
| Item  | 2017 USACE Erosion Survey, DRAFT |              |     | 39.332000°             | 39.334240°   |
|   |                                  |              |     | -121.633178°           | -121.633908° |
| DWR ID  | DWR_MA0007_01_f_2018_9           |              |     |                        |              |
| Comment Code  |                                  |              |     |                        |              |
|   |                                  |              |     |                        |              |
| Inspector Comment   |                                  |              |     |                        |              |
| 2017 Site ID: FHR 47.5 R  |                                  |              |     |                        |              |
| Status: Eroding   |                                  |              |     |                        |              |
| 2017 Field Notes: Vertical face into the levee prism, huge eddy.  |                                  |              |     |                        |              |
| Site History: 2011 - The toe of the levee has been excavated by the land owner. Small holes throughout the site have been filled with a plaster like substance. Large canal on landside slope and over the levee toe. |                                  |              |     |                        |              |

No Photos

|  |   |   |
|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable                      N : Not Inspected/Rated<br>M : Minimally Acceptable        C : Corrected<br>U : Unacceptable                  A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|---|---|

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|---------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Feather River | Right | 11.90      | 09/06/2018<br>09/06/2018 | Sterling York |

|          |                             |              |                        |              |           |
|----------|-----------------------------|--------------|------------------------|--------------|-----------|
| LM Start | <b>1.76</b>                 | Rating **    | M                      | Issue No.    | <b>73</b> |
| LM End   | <b>1.76</b>                 | Issue Type + | Ma                     | Location *   |           |
| Category | Supplemental                |              | GPS Latitude/Longitude |              |           |
|          |                             |              | Start                  | End          |           |
| Item     | DWR UCIP LMA Responsibility |              | 39.334868°             | 39.334868°   |           |
|          |                             |              | -121.633773°           | -121.633773° |           |

|        |       |
|--------|-------|
| DWR ID | 16926 |
|--------|-------|

|              |
|--------------|
| Comment Code |
|--------------|

|                   |
|-------------------|
| Inspector Comment |
|-------------------|

FS\_ID:52390

DS\_ID:16926

EP\_NO: N/A

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 08/09/2017 Dual 60-inch pipes are still present--no modifications appear to have been made to this structure. No permit or owner has been identified. Need to contact owner to notify of safety issue regarding the missing covers for CMP riser. (DWR UCIP - O. Magana)08/02/2017 After reviewing record drawings it appears this crossing has remained. Project Improvements begin at Station (Sta) 1765+00 (MA0007 about LM 1.73) to Sta 2303+50 (ST0005 about LM 1.23), refer to record drawings for the Feather River West Levee Improvement Plans Station 1765+00 to 2368+26, Project D details. MA0007 project details include NO CUTOFF WALL from Sta 1765+00 (MA0007 about LM 1.73) to 1815+00 (MA0007 about LM 2.64) and LEVEE DEGRADE AND RECONSTRUCTION WITH CUT OFF WALL from Sta 1817+00 (MA0007 about LM 2.69) to Sta 2289+00, Sta 2287+00 to Sta 2290+00 (MA0007 about LM 11.60). (DWR UCIP - O. Magana)

5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction.6/10/2015 Debris still present in risers and pipes were not replaced with the SBFA project.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFA project recommends replacing in accordance with title 23.5/7/2013 Same debris issue as last inspection. Recommend repairing top cover to prevent falls. Wheel to open gate chained and locked so could not verify gate operation.10/31/2012 Debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE\_CESPK\_MA07\_2010\_a\_0060 however, no issues noted. (DWR UCIP - O. Magana)

FIELD\_STRUCT\_DESC: 1 of 2: 60-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Slide gate in a 78-inch corrugated metal pipe (CMP) well on the waterside (WS) slope. Concrete bulkheads on both ends. Reinforced concrete spillway on the WS end. (Existing 60-inch corrugated metal gravity drainage pipe crossing remained during the Feather River West Levee Improvements, Project D). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 1+90). Sutter Butte Flood Control Agency (SBFCA) Feather River West Levee Project, Volume 4 of 6 (Project D) Feather River West Levee Improvement Plans Sta 1765+00 to 2368+26, 2016, Volume 4-SBFCA\_Record\_Drawings\_Project D\_2017.05.16.pdf, Drawing No. C-101].

FS Date: 8/9/2017

Photo 1 of 3 : UCIP\_FA\_2018\_52390\_77346.jpg



Overview of levee crown looking upstream towards crossings.

|   |   |   |  |
|---|---|---|--|
| * Location<br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | ** Rating<br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | + Issue Type<br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|---|---|---|--|



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|---------------------------|-------|------------|--------------------------|---------------|
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|          |                             |              |    |                        |               |
|----------|-----------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.76                        | Rating **    | M  | Issue No.              | 73 (cont)     |
| LM End   | 1.76                        | Issue Type + | Ma | Location *             |               |
| Category | Supplemental                |              |    | GPS Latitude/Longitude |               |
|          |                             |              |    | Start                  | End           |
| Item     | DWR UCIP LMA Responsibility |              |    | 39.334868 °            | 39.334868 °   |
|          |                             |              |    | -121.633773 °          | -121.633773 ° |
| DWR ID   | 16926                       |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:52390  
DS\_ID:16926  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/09/2017 Dual 60-inch pipes are still present--no modifications appear to have been made to this structure. No permit or owner has been identified. Need to contact owner to notify of safety issue regarding the missing covers for CMP riser. (DWR UCIP - O. Magana)08/02/2017 After reviewing record drawings it appears this crossing has remained. Project Improvements begin at Station (Sta) 1765+00 (MA0007 about LM 1.73) to Sta 2303+50 (ST0005 about LM 1.23), refer to record drawings for the Feather River West Levee Improvement Plans Station 1765+00 to 2368+26, Project D details. MA0007 project details include NO CUTOFF WALL from Sta 1765+00 (MA0007 about LM 1.73) to 1815+00 (MA0007 about LM 2.64) and LEVEE DEGRADE AND RECONSTRUCTION WITH CUT OFF WALL from Sta 1817+00 (MA0007 about LM 2.69) to Sta 2289+00, Sta 2287+00 to Sta 2290+00 (MA0007 about LM 11.60). (DWR UCIP - O. Magana)  
5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction.6/10/2015 Debris still present in risers and pipes were not replaced with the SBFCA project.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends replacing in accordance with title 23.5/7/2013 Same debris issue as last inspection. Recommend repairing top cover to prevent falls. Wheel to open gate chained and locked so could not verify gate operation.10/31/2012 Debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE\_CESPK\_MA07\_2010\_a\_0060 however, no issues noted. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 1 of 2: 60-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Slide gate in a 78-inch corrugated metal pipe (CMP) well on the waterside (WS) slope. Concrete bulkheads on both ends. Reinforced concrete spillway on the WS end. (Existing 60-inch corrugated metal gravity drainage pipe crossing remained during the Feather River West Levee Improvements, Project D). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 1+90). Sutter Butte Flood Control Agency (SBFCA) Feather River West Levee Project, Volume 4 of 6 (Project D) Feather River West Levee Improvement Plans Sta 1765+00 to 2368+26, 2016, Volume 4-SBFCA\_Record\_Drawings\_Project D\_2017.05.16.pdf, Drawing No. C-101].  
FS Date: 8/9/2017

Photo 2 of 3 : UCIP\_FA\_2018\_52390\_77351.jpg



LS view: concrete headwall with dual 60-inch crossings visible from LS.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

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|---------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Feather River | Right | 11.90      | 09/06/2018<br>09/06/2018 | Sterling York |

|          |                             |              |    |                        |               |
|----------|-----------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.76                        | Rating **    | M  | Issue No.              | 73 (cont)     |
| LM End   | 1.76                        | Issue Type + | Ma | Location *             |               |
| Category | Supplemental                |              |    | GPS Latitude/Longitude |               |
|          |                             |              |    | Start                  | End           |
| Item     | DWR UCIP LMA Responsibility |              |    | 39.334868 °            | 39.334868 °   |
|          |                             |              |    | -121.633773 °          | -121.633773 ° |
| DWR ID   | 16926                       |              |    |                        |               |

Comment Code

Inspector Comment

FS\_ID:52390

DS\_ID:16926

EP\_NO: N/A

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 08/09/2017 Dual 60-inch pipes are still present--no modifications appear to have been made to this structure. No permit or owner has been identified. Need to contact owner to notify of safety issue regarding the missing covers for CMP riser. (DWR UCIP - O. Magana)08/02/2017 After reviewing record drawings it appears this crossing has remained. Project Improvements begin at Station (Sta) 1765+00 (MA0007 about LM 1.73) to Sta 2303+50 (ST0005 about LM 1.23), refer to record drawings for the Feather River West Levee Improvement Plans Station 1765+00 to 2368+26, Project D details. MA0007 project details include NO CUTOFF WALL from Sta 1765+00 (MA0007 about LM 1.73) to 1815+00 (MA0007 about LM 2.64) and LEVEE DEGRADE AND RECONSTRUCTION WITH CUT OFF WALL from Sta 1817+00 (MA0007 about LM 2.69) to Sta 2289+00, Sta 2287+00 to Sta 2290+00 (MA0007 about LM 11.60). (DWR UCIP - O. Magana)

5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction.6/10/2015 Debris still present in risers and pipes were not replaced with the SBFCA project.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends replacing in accordance with title 23.5/7/2013 Same debris issue as last inspection. Recommend repairing top cover to prevent falls. Wheel to open gate chained and locked so could not verify gate operation.10/31/2012 Debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE\_CESPK\_MA07\_2010\_a\_0060 however, no issues noted. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 1 of 2: 60-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Slide gate in a 78-inch corrugated metal pipe (CMP) well on the waterside (WS) slope. Concrete bulkheads on both ends. Reinforced concrete spillway on the WS end. (Existing 60-inch corrugated metal gravity drainage pipe crossing remained during the Feather River West Levee Improvements, Project D). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 1+90). Sutter Butte Flood Control Agency (SBFCA) Feather River West Levee Project, Volume 4 of 6 (Project D) Feather River West Levee Improvement Plans Sta 1765+00 to 2368+26, 2016, Volume 4-SBFCA\_Record\_Drawings\_Project D\_2017.05.16.pdf, Drawing No. C-101].  
FS Date: 8/9/2017

Photo 3 of 3 : UCIP\_FA\_2018\_52390\_77342.jpg



LS view: view of canal looking west from crossing.

|  |  |   |   |
|--|--|---|---|
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|---------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Feather River | Right | 11.90      | 09/06/2018<br>09/06/2018 | Sterling York |

|          |                             |              |    |                        |               |
|----------|-----------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.76                        | Rating **    | M  | Issue No.              | 74            |
| LM End   | 1.76                        | Issue Type + | Ma | Location *             |               |
| Category | Supplemental                |              |    | GPS Latitude/Longitude |               |
|          |                             |              |    | Start                  | End           |
| Item     | DWR UCIP LMA Responsibility |              |    | 39.334886 °            | 39.334886 °   |
|          |                             |              |    | -121.633783 °          | -121.633783 ° |
| DWR ID   | 17011                       |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:52389  
DS\_ID:17011  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/09/2017 Dual 60-inch pipes are still present--no modifications appear to have been made to this structure. No permit or owner has been identified. Need to contact owner to notify of safety issue regarding the missing covers for CMP riser. (DWR UCIP - O. Magana)08/02/2017 After reviewing record drawings it appears this crossing has remained. Project Improvements begin at Station (Sta) 1765+00 (MA0007 about LM 1.73) to Sta 2303+50 (ST0005 about LM 1.23), refer to record drawings for the Feather River West Levee Improvement Plans Station 1765+00 to 2368+26, Project D details. MA0007 project details include NO CUTOFF WALL from Sta 1765+00 (MA0007 about LM 1.73) to 1815+00 (MA0007 about LM 2.64) and LEVEE DEGRADE AND RECONSTRUCTION WITH CUT OFF WALL from Sta 1817+00 (MA0007 about LM 2.69) to Sta 2289+00, Sta 2287+00 to Sta 2290+00 (MA0007 about LM 11.60). (DWR UCIP - O. Magana)  
5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction.6/10/2015 Debris still present inside riser and pipe was not replaced with the SBFCA project.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends replacing in accordance with title 23.5/7/2013 Same as last inspection. Recommend constructing cover to prevent falls. Wheel to operate gate chained and locked so gate operation could not be verified.10/31/2012 no cover; debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE\_CESPK\_MA07\_2010\_a\_0060 however, no issues noted. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 2 of 2: 60-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Slide gate in a 78-inch corrugated metal pipe (CMP) well on the waterside (WS) slope. Concrete bulkheads on both ends. Reinforced concrete spillway on the WS end. (Existing 60-inch corrugated metal gravity drainage pipe crossing remained during the Feather River West Levee Improvements, Project D). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 1+90). Sutter Butte Flood Control Agency (SBFCA) Feather River West Levee Project, Volume 4 of 6 (Project D) Feather River West Levee Improvement Plans Sta 1765+00 to 2368+26, 2016, Volume 4-SBFCA\_Record\_Drawings\_Project D\_2017.05.16.pdf, Drawing No. C-101].  
FS Date: 8/9/2017

Photo 1 of 3 : UCIP\_FA\_2018\_52389\_77352.jpg



Overview of levee crown looking upstream towards crossings.

|  |  |   |
|--|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|



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| Waterway                  | Bank  | Unit Miles | Inspection Start/End     | Inspector     |
|---------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Feather River | Right | 11.90      | 09/06/2018<br>09/06/2018 | Sterling York |

|                   |                             |              |    |                        |               |  |
|-------------------|-----------------------------|--------------|----|------------------------|---------------|--|
| LM Start          | 1.76                        | Rating **    | M  | Issue No.              | 74 (cont)     |  |
| LM End            | 1.76                        | Issue Type + | Ma | Location *             |               |  |
| Category          | Supplemental                |              |    | GPS Latitude/Longitude |               |  |
|                   |                             |              |    | Start                  | End           |  |
| Item              | DWR UCIP LMA Responsibility |              |    | 39.334886 °            | 39.334886 °   |  |
|                   |                             |              |    | -121.633783 °          | -121.633783 ° |  |
| DWR ID            | 17011                       |              |    |                        |               |  |
| Comment Code      |                             |              |    |                        |               |  |
|                   |                             |              |    |                        |               |  |
| Inspector Comment |                             |              |    |                        |               |  |

FS\_ID:52389  
DS\_ID:17011  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/09/2017 Dual 60-inch pipes are still present--no modifications appear to have been made to this structure. No permit or owner has been identified. Need to contact owner to notify of safety issue regarding the missing covers for CMP riser. (DWR UCIP - O. Magana)08/02/2017 After reviewing record drawings it appears this crossing has remained. Project Improvements begin at Station (Sta) 1765+00 (MA0007 about LM 1.73) to Sta 2303+50 (ST0005 about LM 1.23), refer to record drawings for the Feather River West Levee Improvement Plans Station 1765+00 to 2368+26, Project D details. MA0007 project details include NO CUTOFF WALL from Sta 1765+00 (MA0007 about LM 1.73) to 1815+00 (MA0007 about LM 2.64) and LEVEE DEGRADE AND RECONSTRUCTION WITH CUT OFF WALL from Sta 1817+00 (MA0007 about LM 2.69) to Sta 2289+00, Sta 2287+00 to Sta 2290+00 (MA0007 about LM 11.60). (DWR UCIP - O. Magana)  
5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction.6/10/2015 Debris still present inside riser and pipe was not replaced with the SBFCA project.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends replacing in accordance with title 23.5/7/2013 Same as last inspection. Recommend constructing cover to prevent falls. Wheel to operate gate chained and locked so gate operation could not be verified.10/31/2012 no cover; debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE\_CESPK\_MA07\_2010\_a\_0060 however, no issues noted. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 2 of 2: 60-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Slide gate in a 78-inch corrugated metal pipe (CMP) well on the waterside (WS) slope. Concrete bulkheads on both ends. Reinforced concrete spillway on the WS end. (Existing 60-inch corrugated metal gravity drainage pipe crossing remained during the Feather River West Levee Improvements, Project D). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 1+90). Sutter Butte Flood Control Agency (SBFCA) Feather River West Levee Project, Volume 4 of 6 (Project D) Feather River West Levee Improvement Plans Sta 1765+00 to 2368+26, 2016, Volume 4-SBFCA\_Record\_Drawings\_Project D\_2017.05.16.pdf, Drawing No. C-101].  
FS Date: 8/9/2017

Photo 2 of 3 : UCIP\_FA\_2018\_52389\_77357.jpg



LS view: concrete headwall with dual 60-inch crossings.

|  |   |   |
|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0007**

| Waterway                  | Bank  | Unit Miles | Inspection Start/End     | Inspector     |
|---------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 Feather River | Right | 11.90      | 09/06/2018<br>09/06/2018 | Sterling York |

|          |                             |              |    |                        |               |  |
|----------|-----------------------------|--------------|----|------------------------|---------------|--|
| LM Start | 1.76                        | Rating **    | M  | Issue No.              | 74 (cont)     |  |
| LM End   | 1.76                        | Issue Type + | Ma | Location *             |               |  |
| Category | Supplemental                |              |    | GPS Latitude/Longitude |               |  |
|          |                             |              |    | Start                  | End           |  |
| Item     | DWR UCIP LMA Responsibility |              |    | 39.334886 °            | 39.334886 °   |  |
|          |                             |              |    | -121.633783 °          | -121.633783 ° |  |
| DWR ID   | 17011                       |              |    |                        |               |  |

**Comment Code**

**Inspector Comment**

FS\_ID:52389  
DS\_ID:17011  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/09/2017 Dual 60-inch pipes are still present--no modifications appear to have been made to this structure. No permit or owner has been identified. Need to contact owner to notify of safety issue regarding the missing covers for CMP riser. (DWR UCIP - O. Magana)08/02/2017 After reviewing record drawings it appears this crossing has remained. Project Improvements begin at Station (Sta) 1765+00 (MA0007 about LM 1.73) to Sta 2303+50 (ST0005 about LM 1.23), refer to record drawings for the Feather River West Levee Improvement Plans Station 1765+00 to 2368+26, Project D details. MA0007 project details include NO CUTOFF WALL from Sta 1765+00 (MA0007 about LM 1.73) to 1815+00 (MA0007 about LM 2.64) and LEVEE DEGRADE AND RECONSTRUCTION WITH CUT OFF WALL from Sta 1817+00 (MA0007 about LM 2.69) to Sta 2289+00, Sta 2287+00 to Sta 2290+00 (MA0007 about LM 11.60). (DWR UCIP - O. Magana)  
5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction.6/10/2015 Debris still present inside riser and pipe was not replaced with the SBFCA project.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends replacing in accordance with title 23.5/7/2013 Same as last inspection. Recommend constructing cover to prevent falls. Wheel to operate gate chained and locked so gate operation could not be verified.10/31/2012 no cover; debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE\_CESPK\_MA07\_2010\_a\_0060 however, no issues noted. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 2 of 2: 60-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Slide gate in a 78-inch corrugated metal pipe (CMP) well on the waterside (WS) slope. Concrete bulkheads on both ends. Reinforced concrete spillway on the WS end. (Existing 60-inch corrugated metal gravity drainage pipe crossing remained during the Feather River West Levee Improvements, Project D). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 1+90). Sutter Butte Flood Control Agency (SBFCA) Feather River West Levee Project, Volume 4 of 6 (Project D) Feather River West Levee Improvement Plans Sta 1765+00 to 2368+26, 2016, Volume 4-SBFCA\_Record\_Drawings\_Project D\_2017.05.16.pdf, Drawing No. C-101].  
FS Date: 8/9/2017

Photo 3 of 3 : UCIP\_FA\_2018\_52389\_77358.jpg



LS view: canal located on LS, photo taken from levee crown looking west.

| * Location                                      | ** Rating   | + Issue Type   |
|---|---|--|
| LS : Land Side<br>WS : Water Side<br>CR : Crown | A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0007**

| Waterway                  | Bank  | Unit Miles | Inspection Start/End     | Inspector        |
|---------------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 Feather River | Right | 11.90      | 09/06/2018<br>09/06/2018 | Sterling<br>York |

|  |                                  |              |    |                        |               |
|--|----------------------------------|--------------|----|------------------------|---------------|
| LM Start   | 4.39                             | Rating **    | C  | Issue No.              | 10            |
| LM End   | 4.46                             | Issue Type + | Ma | Location *             | WS            |
| Category   | Supplemental                     |              |    | GPS Latitude/Longitude |               |
|  |                                  |              |    | Start                  | End           |
| Item   | 2017 USACE Erosion Survey, DRAFT |              |    | 39.366726 °            | 39.367606 °   |
|  |                                  |              |    | -121.647217 °          | -121.647866 ° |
| DWR ID   | DWR_MA0007_01_f_2018_10          |              |    |                        |               |
| Comment Code   |                                  |              |    |                        |               |
|  |                                  |              |    |                        |               |
| Inspector Comment  |                                  |              |    |                        |               |
| 2017 Site ID: FHR 50.9 R   |                                  |              |    |                        |               |
| Status: Repaired   |                                  |              |    |                        |               |
| 2017 Field Notes: Repaired by state, large quarry stone along entire bank.   |                                  |              |    |                        |               |
| Site History: 2012 - Oversteepened slope with failing rock (from repair completed in 1954). Likely slope stability issues. |                                  |              |    |                        |               |

No Photos

|  |   |   |
|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable                      N : Not Inspected/Rated<br>M : Minimally Acceptable        C : Corrected<br>U : Unacceptable                  A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|---|---|